

**VOLUME I
PERFORMANCE FLIGHT TESTING**

**APPENDIX B
U. S. STANDARD ATMOSPHERE
ALTITUDE, TEMPERATURE,
PRESSURE AND DENSITY**

19970116 076

DTIC QUALITY INSPECTED 4

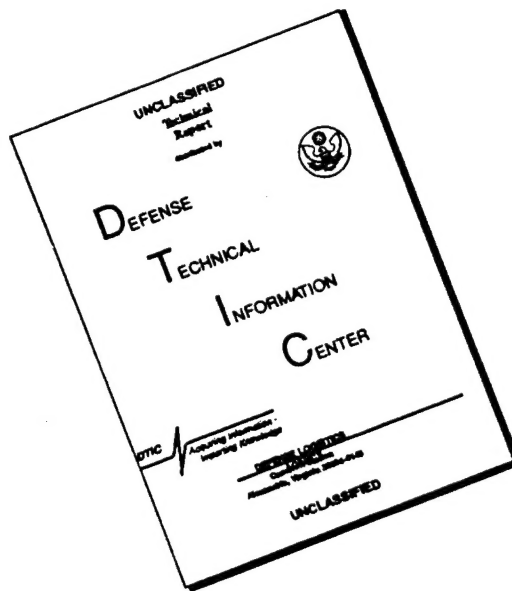
1962

**USAF TEST PILOT SCHOOL
EDWARDS AFB, CA**

DISTRIBUTION STATEMENT A

Approved for public release;

DISCLAIMER NOTICE



THIS DOCUMENT IS BEST QUALITY AVAILABLE. THE COPY FURNISHED TO DTIC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.

APPENDIX B
U.S. STANDARD ATMOSPHERE, 1962
Altitude, Temperature, Pressure, and Density

ADOPTED PRIMARY CONSTANTS.....

Symbol	Units
P_0	2116.22 lbf ft ⁻²
ρ_0	0.076474 lb ft ⁻³
T_0	15_C; 59.0_F
G_0	32.1741 ft sec ⁻²
R^*	1545.31 lbf _R ⁻¹ lb-mol ⁻¹
Z	Tapeline Altitude ft
H	Geopotential Altitude ft

GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	ρ , LB FT ⁻³	$\frac{\rho}{\rho_0}$
-1000	-1000	522.236	62.566	16.981	1.05041 + 3	3.10185 + 1	1.03867 + 0	7.8737 - 2	1.0296 + 0
-900	-900	521.880	62.210	16.783	1.04664	3.08073	1.03285	7.8509	1.0286
-800	-800	521.522	61.853	16.585	1.04289	3.07985	1.02825	7.8281	1.0276
-700	-700	521.165	61.497	16.387	1.03914	3.07898	1.02366	7.8053	1.0266
-600	-600	520.810	61.140	16.189	1.03541	3.05757	1.02187	7.7826	1.0177
-500	-500	520.453	60.783	15.991	1.03169	3.04659	1.01820	7.7598	1.0147
-400	-400	520.098	60.426	15.792	1.02798	3.03563	1.01454	7.7373	1.0118
-300	-300	519.740	60.070	15.594	1.02428	3.02471	1.01089	7.7148	1.0088
-200	-200	519.383	59.713	15.396	1.02059	3.01381	1.00725	7.6923	1.0059
-100	-100	519.027	59.357	15.198	1.01682	3.00286	1.00362	7.6698	1.0029
0	0	518.670	59.000	15.000	1.01325 + 3	2.99213 + 1	1.00000 + 0	7.6474 - 2	1.0000 + 0
100	100	518.313	58.643	14.802	1.00969	2.98133	9.98391 - 1	7.6251	9.9708 - 1
200	200	517.957	58.287	14.604	1.00615	2.97056	9.97293	7.6028	9.9416
300	300	517.600	57.930	14.406	1.00261	2.95983	9.96208	7.5805	9.9125
400	400	517.244	57.574	14.208	9.99809 + 2	2.94913	9.95129	7.5583	9.8835
500	500	516.887	57.217	14.009	9.99357	2.93846	9.94053	7.5362	9.8545
600	600	516.530	56.860	13.811	9.98917	2.92782	9.92980	7.5141	9.8256
700	700	516.174	56.504	13.613	9.98480	2.91721	9.91911	7.4920	9.7966
800	800	515.817	56.147	13.415	9.98043	2.90663	9.91426	7.4700	9.7680
900	900	515.460	55.790	13.217	9.97608	2.89608	9.90951	7.4480	9.7393
1000	1000	515.104	55.434	13.019	9.97165 + 2	2.88557 + 1	9.90487 - 1	7.4261 - 2	9.7108 - 1
1100	1100	514.747	55.077	12.821	9.96715	2.87508	9.90033	7.4043	9.6821
1200	1200	514.391	54.721	12.623	9.96275	2.86463	9.89580	7.3825	9.6535
1300	1300	514.034	54.364	12.424	9.95835	2.85421	9.89130	7.3607	9.6251
1400	1400	513.677	54.007	12.226	9.95395	2.84382	9.88683	7.3390	9.5967
1500	1500	513.321	53.651	12.028	9.94957	2.83345	9.88239	7.3174	9.5684
1600	1600	512.964	53.294	11.830	9.94519	2.82312	9.87797	7.2957	9.5401
1700	1700	512.608	52.938	11.632	9.94083	2.81282	9.87357	7.2742	9.5119
1800	1800	512.251	52.581	11.434	9.93648	2.80255	9.86918	7.2527	9.4838
1900	1900	511.894	52.224	11.236	9.93213	2.79231	9.86481	7.2312	9.4557
2000	2000	511.538	51.868	11.038	9.92779 + 2	2.78210 + 1	9.86046 - 1	7.2098 - 2	9.4277 - 1
2100	2100	511.181	51.511	10.839	9.92346	2.77193	9.85613	7.1884	9.3998
2200	2200	510.824	51.154	10.641	9.91913	2.76178	9.85181	7.1671	9.3719
2300	2300	510.468	50.798	10.443	9.91480	2.75166	9.84750	7.1458	9.3441
2400	2400	510.111	50.441	10.245	9.91047	2.74157	9.84320	7.1246	9.3164
2500	2500	509.755	50.085	10.047	9.90614	2.73151	9.83891	7.1034	9.2887
2600	2600	509.398	49.728	9.849	9.90182	2.72148	9.83463	7.0823	9.2610
2700	2700	509.041	49.371	9.651	9.89750	2.71148	9.83036	7.0612	9.2335
2800	2800	508.685	49.015	9.453	9.89318	2.70152	9.82610	7.0402	9.2060
2900	2900	508.328	48.658	9.255	9.88887	2.69158	9.82185	7.0192	9.1785
3000	3000	507.972	48.302	9.058	9.88456 + 2	2.68167 + 1	9.81761 - 1	6.9983 - 2	9.1512 - 1
3100	3100	507.615	47.945	8.860	9.88025	2.67179	9.81338	6.9774	9.1239
3200	3200	507.258	47.588	8.662	9.87594	2.66194	9.80915	6.9566	9.0966
3300	3300	506.902	47.232	8.464	9.87163	2.65211	9.80493	6.9358	9.0694
3400	3400	506.545	46.875	8.266	9.86732	2.64232	9.80071	6.9150	9.0423
3500	3500	506.188	46.518	8.068	9.86301	2.63256	9.79650	6.8943	9.0152
3600	3600	505.832	46.162	7.870	9.85870	2.62283	9.79229	6.8737	8.9882
3700	3700	505.475	45.805	7.672	9.85439	2.61312	9.78808	6.8531	8.9613
3800	3800	505.119	45.449	7.474	9.85008	2.60346	9.78387	6.8325	8.9344
3900	3900	504.762	45.092	7.276	9.84577	2.59380	9.77966	6.8120	8.9075
4000	4000	504.405	44.735	7.078	9.84146 + 2	2.58418 + 1	9.77545 - 1	6.7916 - 2	8.8809 - 1
4100	4100	504.049	44.379	6.879	9.83715	2.57464	9.77124	6.7712	8.8542
4200	4200	503.692	44.022	6.681	9.83284	2.56510	9.76703	6.7508	8.8275
4300	4300	503.335	43.665	6.483	9.82853	2.55556	9.76282	6.7305	8.8010
4400	4400	502.979	43.309	6.285	9.82422	2.54603	9.75861	6.7102	8.7745
4500	4500	502.622	42.952	6.087	9.81991	2.53650	9.75440	6.6900	8.7480
4600	4600	502.266	42.596	5.889	9.81560	2.52700	9.75019	6.6698	8.7216
4700	4700	501.909	42.239	5.691	9.81129	2.51751	9.74598	6.6497	8.6953
4800	4800	501.553	41.883	5.493	9.80698	2.50802	9.74177	6.6295	8.6689
4900	4900	501.196	41.526	5.295	9.80267	2.49853	9.73756	6.6094	8.6426
5000	5000	500.839	41.169	5.097	9.79836 + 2	2.48901 + 1	9.73335 - 1	6.5892 - 2	8.6167 - 1
5100	5100	500.483	40.813	4.899	9.79405	2.47950	9.72914	6.5690	8.5906
5200	5200	500.126	40.456	4.701	9.78974	2.47001	9.72493	6.5487	8.5646
5300	5300	499.770	40.100	4.503	9.78543	2.46052	9.72072	6.5285	8.5386
5400	5400	499.413	39.743	4.305	9.78112	2.45103	9.71651	6.5083	8.5127
5500	5500	499.057	39.387	4.107	9.77681	2.44154	9.71230	6.4881	8.4868
5600	5600	498.700	39.030	3.909	9.77250	2.43205	9.70809	6.4679	8.4609
5700	5700	498.344	38.674	3.711	9.76819	2.42256	9.70388	6.4477	8.4350
5800	5800	497.987	38.317	3.513	9.76388	2.41307	9.69967	6.4275	8.4091
5900	5900	497.631	37.961	3.315	9.75957	2.40358	9.69546	6.4073	8.3832
6000	6000	497.274	37.604	3.117	9.75526 + 2	2.39409 + 1	9.69125 - 1	6.3872 - 2	8.3573 - 1
6100	6100	496.918	37.248	2.919	9.75095	2.38460	9.68704	6.3670	8.3314
6200	6200	496.561	36.891	2.721	9.74664	2.37511	9.68283	6.3468	8.3055
6300	6300	496.205	36.535	2.523	9.74233	2.36562	9.67862	6.3266	8.2796
6400	6400	495.848	36.178	2.325	9.73802	2.35613	9.67441	6.3064	8.2537
6500	6500	495.492	35.822	2.127	9.73371	2.34664	9.67020	6.2862	8.2278
6600	6600	495.135	35.465	1.929	9.72940	2.33715	9.66599	6.2660	8.2019
6700	6700	494.779	35.109	1.731	9.72509	2.32766	9.66178	6.2458	8.1760
6800	6800	494.422	34.752	1.533	9.72078	2.31817	9.65757	6.2256	8.1501
6900	6900	494.066	34.396	1.335	9.71647	2.30868	9.65336	6.2054	8.1242

GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	ρ , LB FT ⁻³	$\frac{\rho}{\rho_0}$
7000	7002	483.707	34.037	1.132	7.81853 + 2	2.30881 + 1	7.71629 - 1	6.1983 - 2	8.1064 - 1
7100	7102	483.350	33.690	0.933	7.78869	2.30008	7.68704	6.1803	8.0816
7200	7202	482.994	33.324	0.735	7.75835	2.29123	7.65788	6.1613	8.0567
7300	7303	482.637	32.947	0.537	7.72849	2.28234	7.62881	6.1424	8.0320
7400	7403	482.280	32.561	0.339	7.69823	2.27337	7.59983	6.1235	8.0077
7500	7503	481.924	32.164	0.141	7.66755	2.26432	7.57094	6.1046	7.9834
7600	7603	481.567	31.757	-0.057	7.63647	2.25520	7.54214	6.0858	7.9590
7700	7703	481.211	31.341	-0.258	7.60498	2.24611	7.51342	6.0670	7.9334
7800	7803	480.854	30.914	-0.453	7.57307	2.23698	7.48488	6.0483	7.9080
7900	7903	480.497	30.477	-0.651	7.54086	2.22791	7.45658	6.0296	7.8845
8000	8003	480.141	30.031	-0.850	7.50832 + 2	2.22290 + 1	7.42781 - 1	6.0110 - 2	7.8602 - 1
8100	8103	480.784	29.574	-1.048	7.47550	2.21401	7.39865	5.9924	7.8359
8200	8203	480.427	29.107	-1.246	7.44239	2.20505	7.37118	5.9739	7.8116
8300	8303	480.071	28.630	-1.444	7.40898	2.19612	7.34300	5.9554	7.7874
8400	8403	479.714	28.143	-1.642	7.37526	2.18721	7.31480	5.9369	7.7633
8500	8503	479.358	27.646	-1.840	7.34124	2.17832	7.28688	5.9185	7.7392
8600	8604	478.999	27.139	-2.038	7.30692	2.16945	7.25906	5.9001	7.7152
8700	8704	478.640	26.622	-2.236	7.27229	2.16060	7.23113	5.8818	7.6912
8800	8804	478.281	26.095	-2.435	7.23736	2.15177	7.20338	5.8635	7.6673
8900	8904	477.921	25.558	-2.633	7.20212	2.14296	7.17571	5.8453	7.6434
9000	9004	477.562	25.011	-2.831	7.16658 + 2	2.13811 + 1	7.14813 - 1	5.8271 - 2	7.6196 - 1
9100	9104	477.203	24.454	-3.029	7.13074	2.13059	7.12054	5.8089	7.5959
9200	9204	476.844	23.887	-3.227	7.09469	2.12236	7.09323	5.7908	7.5722
9300	9304	476.485	23.310	-3.425	7.05844	2.11421	7.06591	5.7727	7.5486
9400	9404	476.126	22.723	-3.623	7.02199	2.10606	7.03868	5.7547	7.5250
9500	9504	475.767	22.126	-3.821	6.98534	2.09794	7.01152	5.7367	7.5015
9600	9604	475.408	21.519	-4.019	6.94849	2.08984	6.98446	5.7188	7.4781
9700	9705	475.049	20.902	-4.218	6.91134	2.08177	6.95748	5.7009	7.4547
9800	9805	474.690	20.275	-4.416	6.87399	2.07372	6.93058	5.6830	7.4313
9900	9905	474.331	19.638	-4.614	6.83644	2.06569	6.90377	5.6652	7.4080
10000	10005	473.972	18.991	-4.812	6.79869 + 2	2.05770 + 1	6.87704 - 1	5.6475 - 2	7.3848 - 1
10100	10105	473.613	18.334	-5.010	6.76074	2.04972	6.85040	5.6297	7.3616
10200	10205	473.254	17.667	-5.208	6.72259	2.04178	6.82383	5.6121	7.3385
10300	10305	472.895	16.990	-5.406	6.68424	2.03385	6.79736	5.5944	7.3154
10400	10405	472.536	16.303	-5.604	6.64569	2.02596	6.77098	5.5768	7.2924
10500	10505	472.177	15.606	-5.803	6.60694	2.01808	6.74468	5.5593	7.2695
10600	10605	471.818	14.909	-6.001	6.56809	2.01024	6.71842	5.5418	7.2466
10700	10705	471.459	14.202	-6.199	6.52904	2.00241	6.69228	5.5243	7.2237
10800	10805	471.099	13.485	-6.397	6.48979	1.99461	6.66621	5.5068	7.2009
10900	10905	470.740	12.758	-6.596	6.45034	1.98684	6.64023	5.4895	7.1782
11000	11005	470.381	12.011	-6.793	6.41079 + 2	1.97909 + 1	6.61433 - 1	5.4721 - 2	7.1556 - 1
11100	11105	470.022	11.254	-6.991	6.37104	1.97137	6.58852	5.4548	7.1329
11200	11205	469.663	10.497	-7.189	6.33119	1.96367	6.56278	5.4376	7.1103
11300	11305	469.304	9.730	-7.388	6.29114	1.95598	6.53713	5.4205	7.0878
11400	11405	468.945	8.953	-7.586	6.25089	1.94834	6.51155	5.4035	7.0653
11500	11505	468.586	8.166	-7.784	6.21044	1.94071	6.48605	5.3866	7.0429
11600	11605	468.227	7.369	-7.982	6.16979	1.93311	6.46068	5.3698	7.0206
11700	11705	467.868	6.562	-8.180	6.12894	1.92553	6.43533	5.3531	6.9983
11800	11805	467.509	5.745	-8.378	6.08789	1.91797	6.41007	5.3364	6.9761
11900	11905	467.150	4.918	-8.576	6.04664	1.91044	6.38489	5.3199	6.9539
12000	12007	466.791	4.081	-8.774	6.00519 + 2	1.90294 + 1	6.35881 - 1	5.3036 - 2	6.9317 - 1
12100	12107	466.432	3.234	-8.973	5.96354	1.89546	6.33289	5.2874	6.9097
12200	12207	466.073	2.377	-9.171	5.92169	1.88799	6.30707	5.2713	6.8878
12300	12307	465.714	1.510	-9.369	5.87964	1.88058	6.28132	5.2553	6.8659
12400	12407	465.355	0.643	-9.567	5.83739	1.87315	6.25563	5.2393	6.8437
12500	12507	464.996	-0.224	-9.765	5.79484	1.86576	6.23000	5.2234	6.8219
12600	12607	464.637	-0.911	-9.963	5.75209	1.85839	6.20443	5.2076	6.8001
12700	12707	464.278	-1.598	-10.161	5.70904	1.85105	6.17891	5.1917	6.7785
12800	12807	463.919	-2.285	-10.359	5.66579	1.84374	6.15342	5.1759	6.7566
12900	12907	463.560	-2.972	-10.557	5.62234	1.83644	6.12798	5.1601	6.7348
13000	13008	463.201	-3.659	-10.755	5.57869 + 2	1.82917 + 1	6.10259 - 1	5.1444 - 2	6.7133 - 1
13100	13108	462.842	-4.346	-10.953	5.53484	1.82182	6.07725	5.1287	6.6918
13200	13208	462.483	-5.033	-11.152	5.49079	1.81447	6.05191	5.1131	6.6703
13300	13308	462.124	-5.720	-11.350	5.44654	1.80715	6.02657	5.0975	6.6488
13400	13408	461.765	-6.407	-11.548	5.40209	1.80000	6.00122	5.0819	6.6275
13500	13508	461.406	-7.094	-11.746	5.35744	1.79287	5.97588	5.0663	6.6061
13600	13608	461.047	-7.781	-11.944	5.31259	1.78576	5.95053	5.0507	6.5849
13700	13708	460.688	-8.468	-12.142	5.26744	1.77868	5.92518	5.0351	6.5638
13800	13808	460.329	-9.155	-12.341	5.22209	1.77164	5.90000	5.0195	6.5434
13900	13908	459.970	-9.842	-12.539	5.17654	1.76478	5.87489	5.0039	6.5213
14000	14009	459.611	-10.529	-12.737	5.13079 + 2	1.75774 + 1	5.84985 - 1	4.9791 - 2	6.5003 - 1
14100	14110	459.252	-11.216	-12.935	5.08484	1.75092	5.82490	4.9640	6.4792
14200	14210	458.893	-11.903	-13.133	5.03869	1.74407	5.79995	4.9490	6.4583
14300	14310	458.534	-12.590	-13.331	5.00000	1.73725	5.77500	4.9342	6.4373
14400	14410	458.175	-13.277	-13.529	4.96000	1.73040	5.75000	4.9194	6.4165
14500	14510	457.816	-13.964	-13.727	4.91900	1.72358	5.72500	4.9046	6.3957
14600	14610	457.457	-14.651	-13.925	4.87700	1.71673	5.70000	4.8898	6.3748
14700	14710	457.098	-15.338	-14.123	4.83400	1.70988	5.67500	4.8750	6.3542
14800	14811	456.739	-16.025	-14.322	4.79000	1.70303	5.65000	4.8602	6.3335
14900	14911	456.380	-16.712	-14.520	4.74500	1.69618	5.62500	4.8454	6.3129

GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	ρ , LB FT ⁻³	$\frac{\rho}{\rho_0}$
15000	15011	486.178	5.508	-14.718	5.71819 + 2	1.68858 + 1	5.64342 - 1	4.8120 - 2	6.2924 - 1
15100	15111	484.521	5.151	-14.916	5.69519	1.68179	5.62071	4.7964	6.2719
15200	15211	484.144	4.794	-15.114	5.67235	1.67502	5.59538	4.7807	6.2514
15300	15311	484.108	4.438	-15.312	5.64941	1.66827	5.57253	4.7651	6.2310
15400	15411	483.751	4.081	-15.510	5.62653	1.66154	5.55005	4.7498	6.2105
15500	15512	483.395	3.725	-15.708	5.60363	1.65484	5.52804	4.7348	6.1904
15600	15612	483.038	3.368	-15.897	5.58130	1.64818	5.50631	4.7198	6.1701
15700	15712	482.681	3.011	-16.086	5.55874	1.64150	5.48485	4.7051	6.1498
15800	15812	482.325	2.655	-16.284	5.53638	1.63486	5.46368	4.6907	6.1298
15900	15912	481.968	2.298	-16.482	5.51385	1.62824	5.44175	4.6773	6.1097
16000	16012	481.611	1.941	-16.680	5.49152 + 2	1.62164 + 1	5.41971 - 1	4.6570 - 2	6.0896 - 1
16100	16112	481.255	1.585	-16.877	5.46925	1.61507	5.39773	4.6417	6.0696
16200	16212	480.898	1.228	-17.075	5.44707	1.60852	5.37584	4.6264	6.0497
16300	16313	480.542	0.872	-17.274	5.42485	1.60199	5.35401	4.6112	6.0298
16400	16413	480.185	0.515	-17.472	5.40291	1.59548	5.33236	4.5961	6.0099
16500	16513	479.828	0.158	-17.670	5.38094	1.58899	5.31057	4.5809	5.9901
16600	16613	479.472	-0.198	-17.868	5.35904	1.58252	5.28886	4.5658	5.9704
16700	16713	479.115	-0.555	-18.066	5.33722	1.57608	5.26742	4.5508	5.9507
16800	16814	478.759	-0.911	-18.264	5.31546	1.56966	5.24586	4.5357	5.9311
16900	16914	478.402	-1.268	-18.462	5.29378	1.56325	5.22456	4.5207	5.9115
17000	17014	478.045	-1.625	-18.660	5.27217 + 2	1.55687 + 1	5.20323 - 1	4.5058 - 2	5.8919 - 1
17100	17114	477.689	-1.981	-18.857	5.25064	1.55051	5.18197	4.4908	5.8724
17200	17214	477.332	-2.338	-19.055	5.22917	1.54417	5.16079	4.4760	5.8530
17300	17314	476.975	-2.695	-19.253	5.20777	1.53785	5.13967	4.4612	5.8336
17400	17415	476.619	-3.051	-19.451	5.18645	1.53156	5.11863	4.4464	5.8142
17500	17515	476.262	-3.408	-19.649	5.16519	1.52528	5.09785	4.4316	5.7949
17600	17615	475.906	-3.764	-19.847	5.14401	1.51903	5.07747	4.4169	5.7757
17700	17715	475.549	-4.121	-20.045	5.12280	1.51279	5.05691	4.4022	5.7565
17800	17815	475.192	-4.478	-20.243	5.10185	1.50658	5.03514	4.3876	5.7373
17900	17915	474.835	-4.834	-20.441	5.08088	1.50038	5.01444	4.3729	5.7182
18000	18016	474.479	-5.191	-20.639	5.05998 + 2	1.49421 + 1	4.99381 - 1	4.3584 - 2	5.6991 - 1
18100	18116	474.122	-5.547	-20.837	5.03915	1.48806	4.97325	4.3438	5.6801
18200	18216	473.766	-5.904	-21.035	5.01838	1.48193	4.95276	4.3293	5.6612
18300	18316	473.409	-6.261	-21.233	4.99769	1.47582	4.93233	4.3149	5.6423
18400	18416	473.053	-6.617	-21.431	4.97705	1.46973	4.91198	4.3005	5.6234
18500	18516	472.696	-6.974	-21.629	4.95651	1.46366	4.89169	4.2861	5.6046
18600	18617	472.339	-7.331	-21.827	4.93602	1.45761	4.87147	4.2717	5.5858
18700	18717	471.983	-7.687	-22.025	4.91560	1.45158	4.85132	4.2574	5.5671
18800	18817	471.626	-8.044	-22.223	4.89525	1.44557	4.83124	4.2431	5.5484
18900	18917	471.270	-8.400	-22.421	4.87497	1.43958	4.81122	4.2289	5.5298
19000	19017	470.913	-8.757	-22.619	4.85475 + 2	1.43361 + 1	4.79127 - 1	4.2147 - 2	5.5112 - 1
19100	19118	470.556	-9.114	-22.817	4.83461	1.42766	4.77139	4.2005	5.4927
19200	19218	470.200	-9.470	-23.015	4.81453	1.42173	4.75157	4.1864	5.4742
19300	19318	469.843	-9.827	-23.213	4.79452	1.41582	4.73182	4.1723	5.4558
19400	19418	469.486	-10.184	-23.411	4.77458	1.40993	4.71214	4.1582	5.4374
19500	19518	469.130	-10.540	-23.609	4.75470	1.40406	4.69252	4.1442	5.4191
19600	19618	468.773	-10.897	-23.807	4.73489	1.39821	4.67297	4.1302	5.4008
19700	19719	468.417	-11.253	-24.005	4.71515	1.39238	4.65349	4.1163	5.3826
19800	19819	468.060	-11.610	-24.203	4.69547	1.38657	4.63407	4.1024	5.3644
19900	19919	467.703	-11.967	-24.401	4.67586	1.38076	4.61472	4.0885	5.3462
20000	20019	467.347	-12.323	-24.599	4.65632 + 2	1.37501 + 1	4.59543 - 1	4.0746 - 2	5.3281 - 1
20100	20119	466.990	-12.680	-24.797	4.63685	1.36926	4.57621	4.0608	5.3101
20200	20220	466.634	-13.036	-25.000	4.61743	1.36353	4.55705	4.0471	5.2921
20300	20320	466.277	-13.393	-25.203	4.59809	1.35782	4.53796	4.0333	5.2741
20400	20420	465.920	-13.750	-25.406	4.57881	1.35212	4.51894	4.0196	5.2562
20500	20520	465.564	-14.106	-25.609	4.55959	1.34645	4.49997	4.0060	5.2383
20600	20620	465.207	-14.463	-25.812	4.54045	1.34079	4.48108	3.9923	5.2205
20700	20721	464.850	-14.820	-26.015	4.52137	1.33516	4.46224	3.9787	5.2027
20800	20821	464.494	-15.177	-26.218	4.50235	1.32954	4.44347	3.9652	5.1850
20900	20921	464.137	-15.533	-26.421	4.48340	1.32395	4.42477	3.9517	5.1673
21000	21021	463.781	-15.890	-26.624	4.46451 + 2	1.31837 + 1	4.40613 - 1	3.9382 - 2	5.1497 - 1
21100	21121	463.424	-16.246	-26.827	4.44568	1.31281	4.38758	3.9247	5.1321
21200	21222	463.067	-16.603	-27.030	4.42682	1.30727	4.36904	3.9113	5.1145
21300	21322	462.711	-16.959	-27.233	4.40803	1.30175	4.35058	3.8979	5.0970
21400	21422	462.354	-17.316	-27.436	4.38929	1.29625	4.33220	3.8846	5.0796
21500	21522	461.998	-17.672	-27.639	4.37053	1.29077	4.31387	3.8713	5.0622
21600	21622	461.641	-18.029	-27.842	4.35183	1.28530	4.29561	3.8580	5.0448
21700	21723	461.284	-18.386	-28.045	4.33319	1.27986	4.27741	3.8448	5.0275
21800	21823	460.928	-18.743	-28.248	4.31457	1.27443	4.25927	3.8316	5.0102
21900	21923	460.571	-19.100	-28.451	4.29599	1.26902	4.24120	3.8184	4.9930
22000	22023	460.214	-19.456	-28.654	4.27744 + 2	1.26363 + 1	4.22319 - 1	3.8052 - 2	4.9758 - 1
22100	22123	459.858	-19.813	-28.857	4.25896	1.25826	4.20524	3.7921	4.9587
22200	22224	459.501	-20.169	-29.060	4.24053	1.25291	4.18735	3.7791	4.9416
22300	22324	459.145	-20.525	-29.263	4.22217	1.24757	4.16952	3.7660	4.9246
22400	22424	458.788	-20.882	-29.466	4.20387	1.24226	4.15176	3.7530	4.9076
22500	22524	458.431	-21.239	-29.669	4.18553	1.23696	4.13405	3.7401	4.8906
22600	22625	458.075	-21.595	-29.872	4.16725	1.23168	4.11641	3.7271	4.8737
22700	22725	457.718	-21.952	-30.075	4.14893	1.22642	4.09883	3.7143	4.8568
22800	22825	457.362	-22.308	-30.278	4.13058	1.22118	4.08131	3.7014	4.8400
22900	22925	457.005	-22.665	-30.481	4.11229	1.21595	4.06384	3.6886	4.8233

GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	ρ , LB FT ⁻³	$\frac{\rho}{\rho_0}$
23000	23025	436.448	-23.022	-30.568	4.10008 + 2	1.21075 + 1	4.04445 - 1	1.6758 - 2	4.8085 - 1
23100	23128	436.592	-23.578	-30.786	4.08249	1.20566	4.02911	1.6830	4.7899
23200	23238	436.736	-24.134	-31.004	4.06490	1.20059	4.01123	1.6903	4.7722
23300	23348	436.880	-24.690	-31.222	4.04734	1.19554	3.99481	1.6976	4.7555
23400	23458	437.024	-25.246	-31.440	4.03015	1.19050	3.97745	1.7049	4.7401
23500	23567	437.168	-25.802	-31.658	4.01282	1.18549	3.96035	1.7123	4.7236
23600	23677	437.312	-26.358	-31.876	3.99556	1.18049	3.94331	1.7197	4.7071
23700	23787	437.456	-26.914	-32.094	3.97835	1.17548	3.92633	1.7272	4.6907
23800	23897	437.600	-27.470	-32.312	3.96121	1.17048	3.90941	1.7346	4.6743
23900	23907	437.744	-28.026	-32.530	3.94412	1.16547	3.89255	1.7422	4.6580
24000	24028	437.888	-28.582	-32.748	3.92710 + 2	1.16047	3.87574 - 1	1.7497 - 2	4.6417 - 1
24100	24128	438.032	-29.138	-32.966	3.91013	1.15546	3.85890	1.7573	4.6254
24200	24228	438.176	-29.694	-33.184	3.89322	1.15046	3.84231	1.7649	4.6092
24300	24328	438.320	-30.250	-33.402	3.87637	1.14546	3.82588	1.7725	4.5931
24400	24429	438.464	-30.806	-33.620	3.85956	1.14046	3.80912	1.7802	4.5770
24500	24529	438.608	-31.362	-33.838	3.84286	1.13546	3.79280	1.7878	4.5609
24600	24629	438.752	-31.918	-34.056	3.82619	1.13046	3.77615	1.7955	4.5449
24700	24729	438.896	-32.474	-34.274	3.80957	1.12547	3.75976	1.8032	4.5289
24800	24830	439.040	-33.030	-34.492	3.79302	1.12047	3.74342	1.8109	4.5129
24900	24930	439.184	-33.586	-34.710	3.77652	1.11547	3.72714	1.8186	4.4970
25000	25030	439.328	-34.142	-34.928	3.76008 + 2	1.11047	3.71092 - 1	1.8262 - 2	4.4812 - 1
25100	25130	439.472	-34.698	-35.146	3.74371	1.10547	3.69475	1.8339	4.4654
25200	25230	439.616	-35.254	-35.362	3.72739	1.10047	3.67864	1.8416	4.4496
25300	25331	439.760	-35.810	-35.579	3.71112	1.09548	3.66259	1.8493	4.4339
25400	25431	439.904	-36.366	-35.797	3.69492	1.09048	3.64660	1.8570	4.4182
25500	25531	440.048	-36.922	-36.014	3.67877	1.08548	3.63066	1.8647	4.4025
25600	25631	440.192	-37.478	-36.232	3.66267	1.08048	3.61478	1.8724	4.3869
25700	25732	440.336	-38.034	-36.449	3.64664	1.07548	3.59895	1.8801	4.3714
25800	25832	440.480	-38.590	-36.667	3.63066	1.07048	3.58319	1.8878	4.3559
25900	25932	440.624	-39.146	-36.884	3.61474	1.06548	3.56747	1.8955	4.3404
26000	26032	440.768	-39.702	-37.102	3.59888 + 2	1.06048	3.55181 - 1	1.9032 - 2	4.3250 - 1
26100	26133	440.912	-40.258	-37.319	3.58307	1.05548	3.53621	1.9109	4.3096
26200	26233	441.056	-40.814	-37.537	3.56732	1.05048	3.52067	1.9186	4.2942
26300	26333	441.200	-41.370	-37.754	3.55162	1.04548	3.50518	1.9263	4.2789
26400	26433	441.344	-41.926	-37.972	3.53596	1.04048	3.48974	1.9340	4.2637
26500	26534	441.488	-42.482	-38.189	3.52040	1.03548	3.47436	1.9417	4.2484
26600	26634	441.632	-43.038	-38.407	3.50487	1.03048	3.45904	1.9494	4.2333
26700	26734	441.776	-43.594	-38.624	3.48940	1.02548	3.44377	1.9571	4.2181
26800	26834	441.920	-44.150	-38.842	3.47398	1.02048	3.42855	1.9648	4.2030
26900	26935	442.064	-44.706	-39.059	3.45862	1.01548	3.41339	1.9725	4.1880
27000	27035	442.208	-45.262	-39.277	3.44331 + 2	1.01048	3.39829 - 1	1.9802 - 2	4.1730 - 1
27100	27135	442.352	-45.818	-39.494	3.42806	1.00548	3.38323	1.9879	4.1580
27200	27236	442.496	-46.374	-39.712	3.41286	1.00048	3.36823	1.9956	4.1430
27300	27336	442.640	-46.930	-39.929	3.39772	1.00000	3.35329	1.9999	4.1282
27400	27436	442.784	-47.486	-40.147	3.38263	9.99999 + 0	3.33839	1.9999	4.1133
27500	27536	442.928	-48.042	-40.364	3.36759	9.99999	3.32356	1.9999	4.0985
27600	27637	443.072	-48.598	-40.582	3.35261	9.99999	3.30877	1.9999	4.0837
27700	27737	443.216	-49.154	-40.799	3.33769	9.99999	3.29404	1.9999	4.0690
27800	27837	443.360	-49.710	-41.017	3.32281	9.99999	3.27936	1.9999	4.0543
27900	27937	443.504	-50.266	-41.234	3.30800	9.99999	3.26474	1.9999	4.0397
28000	28038	443.648	-50.822	-41.452	3.29323 + 2	9.99999 + 0	3.25017 - 1	1.9999 - 2	4.0251 - 1
28100	28138	443.792	-51.378	-41.669	3.27852	9.99999	3.23565	1.9999	4.0105
28200	28238	443.936	-51.934	-41.887	3.26386	9.99999	3.22118	1.9999	3.9960
28300	28338	444.080	-52.490	-42.104	3.24926	9.99999	3.20677	1.9999	3.9815
28400	28439	444.224	-53.046	-42.322	3.23470	9.99999	3.19241	1.9999	3.9670
28500	28539	444.368	-53.602	-42.539	3.22021	9.99999	3.17810	1.9999	3.9526
28600	28639	444.512	-54.158	-42.757	3.20576	9.99999	3.16384	1.9999	3.9383
28700	28740	444.656	-54.714	-42.974	3.19136	9.99999	3.14963	1.9999	3.9239
28800	28840	444.800	-55.270	-43.192	3.17702	9.99999	3.13548	1.9999	3.9097
28900	28940	444.944	-55.826	-43.409	3.16273	9.99999	3.12138	1.9999	3.8954
29000	29040	445.088	-56.382	-43.627	3.14850 + 2	9.99999 + 0	3.10732 - 1	1.9999 - 2	3.8812 - 1
29100	29141	445.232	-56.938	-43.844	3.13431	9.99999	3.09332	1.9999	3.8670
29200	29241	445.376	-57.494	-44.062	3.12018	9.99999	3.07937	1.9999	3.8529
29300	29341	445.520	-58.050	-44.279	3.10609	9.99999	3.06548	1.9999	3.8389
29400	29442	445.664	-58.606	-44.497	3.09206	9.99999	3.05163	1.9999	3.8248
29500	29542	445.808	-59.162	-44.714	3.07808	9.99999	3.03783	1.9999	3.8108
29600	29642	445.952	-59.718	-44.932	3.06416	9.99999	3.02409	1.9999	3.7968
29700	29742	446.096	-60.274	-45.149	3.05028	9.99999	3.01039	1.9999	3.7829
29800	29843	446.240	-60.830	-45.367	3.03645	9.99999	2.99675	1.9999	3.7690
29900	29943	446.384	-61.386	-45.584	3.02268	9.99999	2.98315	1.9999	3.7551
30000	30043	446.528	-61.942	-45.802	3.00895 + 2	9.99999 + 0	2.96961 - 1	1.9999 - 2	3.7413 - 1
30100	30144	446.672	-62.498	-46.019	2.99528	9.99999	2.95611	1.9999	3.7275
30200	30244	446.816	-63.054	-46.237	2.98166	9.99999	2.94267	1.9999	3.7138
30300	30344	446.960	-63.610	-46.454	2.96808	9.99999	2.92927	1.9999	3.7001
30400	30444	447.104	-64.166	-46.672	2.95456	9.99999	2.91592	1.9999	3.6865
30500	30545	447.248	-64.722	-46.889	2.94109	9.99999	2.90263	1.9999	3.6729
30600	30645	447.392	-65.278	-47.107	2.92766	9.99999	2.88938	1.9999	3.6593
30700	30745	447.536	-65.834	-47.324	2.91429	9.99999	2.87618	1.9999	3.6457
30800	30846	447.680	-66.390	-47.542	2.90096	9.99999	2.86303	1.9999	3.6322
30900	30946	447.824	-66.946	-47.759	2.88769	9.99999	2.84993	1.9999	3.6188

GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	ρ , LB FT ⁻³	$\frac{\rho}{\rho_0}$
31000	31046	408.119	-51.551	-46.417	2.87446 + 2	8.48823 + 0	2.83587 - 1	2.7371 - 2	1.6053 - 1
31100	31146	407.762	-51.908	-46.815	2.86125	8.44728	2.82387	2.7469	1.5919
31200	31247	407.405	-52.264	-47.213	2.84810	8.40791	2.81091	2.7557	1.5785
31300	31347	407.048	-52.621	-47.612	2.83504	8.36919	2.79901	2.7645	1.5653
31400	31447	406.693	-52.977	-48.010	2.82205	8.33251	2.78715	2.7733	1.5520
31500	31546	406.338	-53.334	-48.408	2.80907	8.29617	2.77530	2.7821	1.5388
31600	31646	405.979	-53.691	-48.806	2.79613	8.26088	2.76345	2.7909	1.5256
31700	31746	405.623	-54.047	-49.204	2.78325	8.22683	2.75180	2.8000	1.5124
31800	31846	405.268	-54.404	-49.602	2.77041	8.19302	2.74015	2.8091	1.4993
31900	31946	404.909	-54.761	-49.999	2.75762	8.15936	2.72850	2.8182	1.4862
32000	32046	404.553	-55.117	-50.398	2.74488 + 2	8.12583 + 0	2.71685 - 1	2.82691 - 2	1.4731 - 1
32100	32146	404.198	-55.474	-50.797	2.73219	8.09245	2.70520	2.83562	1.4601
32200	32246	403.840	-55.830	-51.195	2.71954	8.05921	2.69355	2.84433	1.4472
32300	32346	403.483	-56.187	-51.593	2.70694	8.02610	2.68190	2.85304	1.4343
32400	32446	403.126	-56.544	-51.991	2.69439	7.99310	2.67025	2.86175	1.4213
32500	32546	402.770	-56.900	-52.389	2.68189	7.96021	2.65860	2.87046	1.4085
32600	32646	402.413	-57.257	-52.787	2.66943	7.92742	2.64695	2.87917	1.3956
32700	32746	402.057	-57.613	-53.185	2.65702	7.89473	2.63530	2.88788	1.3828
32800	32846	401.700	-57.970	-53.583	2.64466	7.86214	2.62365	2.89659	1.3701
32900	32946	401.343	-58.327	-53.981	2.63234	7.82965	2.61200	2.90530	1.3574
33000	33046	400.987	-58.683	-54.380	2.62007 + 2	7.79727 + 0	2.60035 - 1	2.91361 - 2	1.3447 - 1
33100	33146	400.630	-59.040	-54.778	2.60785	7.76498	2.58870	2.92192	1.3321
33200	33246	400.273	-59.397	-55.176	2.59567	7.73279	2.57705	2.93023	1.3196
33300	33346	399.917	-59.753	-55.574	2.58354	7.70070	2.56540	2.93854	1.3071
33400	33446	399.560	-60.110	-55.972	2.57145	7.66871	2.55375	2.94685	1.2946
33500	33546	399.204	-60.466	-56.370	2.55941	7.63682	2.54210	2.95516	1.2821
33600	33646	398.847	-60.823	-56.768	2.54742	7.60503	2.53045	2.96347	1.2696
33700	33746	398.490	-61.180	-57.166	2.53547	7.57334	2.51880	2.97178	1.2571
33800	33846	398.134	-61.536	-57.564	2.52357	7.54175	2.50715	2.98009	1.2446
33900	33946	397.777	-61.893	-57.962	2.51171	7.51026	2.49550	2.98840	1.2322
34000	34046	397.421	-62.249	-58.361	2.49990 + 2	7.47887 + 0	2.48385 - 1	2.99671 - 2	1.2199 - 1
34100	34146	397.064	-62.606	-58.759	2.48813	7.44748	2.47220	3.00502	1.2074
34200	34246	396.707	-62.963	-59.157	2.47641	7.41619	2.46055	3.01333	1.1949
34300	34346	396.351	-63.319	-59.555	2.46473	7.38490	2.44890	3.02164	1.1824
34400	34446	395.994	-63.676	-59.953	2.45310	7.35371	2.43725	3.03000	1.1699
34500	34546	395.637	-64.033	-60.351	2.44151	7.32262	2.42560	3.03831	1.1574
34600	34646	395.281	-64.389	-60.749	2.42996	7.29163	2.41395	3.04662	1.1449
34700	34746	394.924	-64.746	-61.147	2.41846	7.26074	2.40230	3.05493	1.1324
34800	34846	394.568	-65.102	-61.545	2.40701	7.23005	2.39065	3.06324	1.1199
34900	34946	394.211	-65.459	-61.943	2.39559	7.20006	2.37900	3.07155	1.1074
35000	35046	393.854	-65.816	-62.341	2.38423 + 2	7.16987 + 0	2.36735 - 1	3.07986 - 2	1.0949 - 1
35100	35146	393.498	-66.173	-62.739	2.37292	7.13988	2.35570	3.08817	1.0824
35200	35246	393.141	-66.530	-63.137	2.36162	7.11009	2.34405	3.09648	1.0699
35300	35346	392.785	-66.887	-63.535	2.35036	7.08040	2.33240	3.10479	1.0574
35400	35446	392.428	-67.244	-63.933	2.33915	7.05081	2.32075	3.11310	1.0449
35500	35546	392.071	-67.601	-64.331	2.32800	7.02132	2.30910	3.12141	1.0324
35600	35646	391.715	-67.958	-64.729	2.31690	7.00003	2.29745	3.12972	1.0199
35700	35746	391.358	-68.315	-65.127	2.30585	6.97884	2.28580	3.13803	1.0074
35800	35846	391.001	-68.672	-65.525	2.29485	6.95775	2.27415	3.14634	0.9949
35900	35946	390.644	-69.029	-65.923	2.28390	6.93676	2.26250	3.15465	0.9824
36000	36046	390.287	-69.386	-66.321	2.27300	6.91587	2.25085	3.16296	0.9699
36100	36146	389.930	-69.743	-66.719	2.26215	6.89508	2.23920	3.17127	0.9574
36200	36246	389.573	-70.100	-67.117	2.25135	6.87439	2.22755	3.17958	0.9449
36300	36346	389.216	-70.457	-67.515	2.24060	6.85380	2.21590	3.18789	0.9324
36400	36446	388.859	-70.814	-67.913	2.23000	6.83331	2.20425	3.19620	0.9199
36500	36546	388.502	-71.171	-68.311	2.21945	6.81292	2.19260	3.20451	0.9074
36600	36646	388.145	-71.528	-68.709	2.20895	6.79263	2.18095	3.21282	0.8949
36700	36746	387.788	-71.885	-69.107	2.19850	6.77244	2.16930	3.22113	0.8824
36800	36846	387.431	-72.242	-69.505	2.18810	6.75235	2.15765	3.22944	0.8699
36900	36946	387.074	-72.599	-69.903	2.17775	6.73236	2.14600	3.23775	0.8574
37000	37046	386.717	-72.956	-70.301	2.16745	6.71247	2.13435	3.24606	0.8449
37100	37146	386.360	-73.313	-70.699	2.15720	6.69268	2.12270	3.25437	0.8324
37200	37246	386.003	-73.670	-71.097	2.14700	6.67299	2.11105	3.26268	0.8199
37300	37346	385.646	-74.027	-71.495	2.13685	6.65340	2.10000	3.27099	0.8074
37400	37446	385.289	-74.384	-71.893	2.12675	6.63391	2.08895	3.27930	0.7949
37500	37546	384.932	-74.741	-72.291	2.11670	6.61452	2.07790	3.28761	0.7824
37600	37646	384.575	-75.098	-72.689	2.10670	6.59523	2.06685	3.29592	0.7699
37700	37746	384.218	-75.455	-73.087	2.09675	6.57604	2.05580	3.30423	0.7574
37800	37846	383.861	-75.812	-73.485	2.08685	6.55695	2.04475	3.31254	0.7449
37900	37946	383.504	-76.169	-73.883	2.07700	6.53796	2.03370	3.32085	0.7324
38000	38046	383.147	-76.526	-74.281	2.06720	6.51907	2.02265	3.32916	0.7199
38100	38146	382.790	-76.883	-74.679	2.05745	6.50028	2.01160	3.33747	0.7074
38200	38246	382.433	-77.240	-75.077	2.04775	6.48159	2.00055	3.34578	0.6949
38300	38346	382.076	-77.597	-75.475	2.03810	6.46290	1.98950	3.35409	0.6824
38400	38446	381.719	-77.954	-75.873	2.02850	6.44431	1.97845	3.36240	0.6699
38500	38546	381.362	-78.311	-76.271	2.01895	6.42582	1.96740	3.37071	0.6574
38600	38646	381.005	-78.668	-76.669	2.00945	6.40743	1.95635	3.37902	0.6449
38700	38746	380.648	-79.025	-77.067	2.00000	6.38914	1.94530	3.38733	0.6324
38800	38846	380.291	-79.382	-77.465	1.99060	6.37095	1.93425	3.39564	0.6199
38900	38946	379.934	-79.739	-77.863	1.98125	6.35286	1.92320	3.40395	0.6074
39000	39046	379.577	-80.096	-78.261	1.97195	6.33487	1.91215	3.41226	0.5949
39100	39146	379.220	-80.453	-78.659	1.96270	6.31698	1.90110	3.42057	0.5824
39200	39246	378.863	-80.810	-79.057	1.95350	6.29919	1.89005	3.42888	0.5699
39300	39346	378.506	-81.167	-79.455	1.94435	6.28150	1.87900	3.43719	0.5574
39400	39446	378.149	-81.524	-79.853	1.93525	6.26391	1.86795	3.44550	0.5449
39500	39546	377.792	-81.881	-80.251	1.92620	6.24642	1.85690	3.45381	0.5324
39600	39646	377.435	-82.238	-80.649	1.91720	6.22903	1.84585	3.46212	0.5199
39700	39746	377.078	-82.595	-81.047	1.90825	6.21174	1.83480	3.47043	0.5074
39800	39846	376.721	-82.952	-81.445	1.90000	6.19455	1.82375	3.47874	0.4949
39900	39946	376.364	-83.309	-81.843	1.89180	6.17746	1.81270	3.48705	0.4824
40000	40046	376.007	-83.666	-82.241	1.88365	6.16047	1.80165	3.49536	0.4699
40100	40146	375.650	-84.023	-82.639	1.87555	6.14358	1.79060	3.50367	0.4574
40200	40246	375.293	-84.380	-83.037	1.86750	6.12679	1.77955	3.51198	0.4449
40300	40346	374.936	-84.737	-83.435	1.85950	6.11000	1.76850	3.52029	0.4324
40400	40446	374.579	-85.094	-83.833	1.85155	6.09331	1.75745	3.52860	0.4199
40500	40546	374.222	-85.451	-84.231	1.84365	6.07672	1.74640	3.53691	0.4074
40600	40646	373.865	-85.808	-84.629	1.83580	6.06023	1.73535	3.54522	0.3949
40700	40746	373.508	-86.165	-85.027	1.82800	6.04384	1.72430	3.55353	0.3824
40800	40846	373.151	-86.522	-85.425	1.82025	6.02755	1.71325	3.56184	0.3699
40900	40946	372.794	-86.879	-85.823	1.81255	6.01136	1.70220	3.57015	0.3574
41000	41046	372.437	-87.236	-86.221	1.80490	6.00007	1.69115	3.57846	0.3449
41100	41146	372.080	-87.593	-86.619	1.79730	5.98888	1.6		

GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	$\rho, \text{LB FT}^{-3}$	$\frac{\rho}{\rho_0}$
43000	43089	389.970	-89.700	-56.500	1.62357 + 2	4.79439 + 0	1.60234 - 1	1.6298 - 2	2.1311 - 1
43200	43290	389.970	-89.700	-56.500	1.60803	4.74882	1.58701	1.6142	2.1108
43400	43491	389.970	-89.700	-56.500	1.59265	4.70310	1.57182	1.5987	2.0906
43600	43691	389.970	-89.700	-56.500	1.57741	4.65810	1.55679	1.5836	2.0708
43800	43892	389.970	-89.700	-56.500	1.56222	4.61354	1.54189	1.5683	2.0508
44000	44093	389.970	-89.700	-56.500	1.54708	4.56941	1.52714	1.5533	2.0311
44200	44294	389.970	-89.700	-56.500	1.53257	4.52589	1.51253	1.5384	2.0117
44400	44495	389.970	-89.700	-56.500	1.51791	4.48309	1.49808	1.5237	1.9925
44600	44696	389.970	-89.700	-56.500	1.50339	4.44051	1.48373	1.5091	1.9734
44800	44896	389.970	-89.700	-56.500	1.48891	4.39704	1.46954	1.4947	1.9548
45000	45097	389.970	-89.700	-56.500	1.47476 + 2	4.35408 + 0	1.45548 - 1	1.4804 - 2	1.9358 - 1
45200	45298	389.970	-89.700	-56.500	1.46086	4.31132	1.44158	1.4662	1.9173
45400	45499	389.970	-89.700	-56.500	1.44688	4.27205	1.42776	1.4522	1.8990
45600	45700	389.970	-89.700	-56.500	1.43284	4.23118	1.41411	1.4383	1.8808
45800	45901	389.970	-89.700	-56.500	1.41914	4.19070	1.40066	1.4246	1.8628
46000	46102	389.970	-89.700	-56.500	1.40556	4.15061	1.38718	1.4109	1.8450
46200	46303	389.970	-89.700	-56.500	1.39211	4.11091	1.37391	1.3974	1.8273
46400	46503	389.970	-89.700	-56.500	1.37879	4.07158	1.36076	1.3841	1.8099
46600	46704	389.970	-89.700	-56.500	1.36560	4.03263	1.34775	1.3708	1.7925
46800	46905	389.970	-89.700	-56.500	1.35254	3.99405	1.33485	1.3577	1.7754
47000	47106	389.970	-89.700	-56.500	1.33960 + 2	3.95584 + 0	1.32208 - 1	1.3447 - 2	1.7584 - 1
47200	47307	389.970	-89.700	-56.500	1.32679	3.91800	1.30944	1.3319	1.7416
47400	47508	389.970	-89.700	-56.500	1.31409	3.88051	1.29691	1.3191	1.7249
47600	47709	389.970	-89.700	-56.500	1.30152	3.84339	1.28450	1.3065	1.7084
47800	47910	389.970	-89.700	-56.500	1.28907	3.80662	1.27221	1.2940	1.6921
48000	48111	389.970	-89.700	-56.500	1.27674	3.77020	1.26004	1.2816	1.6759
48200	48312	389.970	-89.700	-56.500	1.26452	3.73414	1.24799	1.2694	1.6599
48400	48513	389.970	-89.700	-56.500	1.25243	3.69841	1.23605	1.2572	1.6440
48600	48714	389.970	-89.700	-56.500	1.24044	3.66303	1.22422	1.2452	1.6282
48800	48914	389.970	-89.700	-56.500	1.22856	3.62799	1.21251	1.2333	1.6127
49000	49115	389.970	-89.700	-56.500	1.21682 + 2	3.59328 + 0	1.20091 - 1	1.2215 - 2	1.5972 - 1
49200	49316	389.970	-89.700	-56.500	1.20518	3.55891	1.18942	1.2098	1.5820
49400	49517	389.970	-89.700	-56.500	1.19365	3.52486	1.17805	1.1982	1.5668
49600	49718	389.970	-89.700	-56.500	1.18223	3.49114	1.16678	1.1868	1.5518
49800	49919	389.970	-89.700	-56.500	1.17092	3.45774	1.15561	1.1754	1.5370
50000	50120	389.970	-89.700	-56.500	1.15972	3.42466	1.14456	1.1642	1.5223
50200	50321	389.970	-89.700	-56.500	1.14863	3.39190	1.13361	1.1530	1.5077
50400	50522	389.970	-89.700	-56.500	1.13764	3.35945	1.12278	1.1420	1.4933
50600	50723	389.970	-89.700	-56.500	1.12676	3.32731	1.11202	1.1311	1.4790
50800	50924	389.970	-89.700	-56.500	1.11598	3.29548	1.10138	1.1202	1.4649
51000	51125	389.970	-89.700	-56.500	1.10530 + 2	3.26396 + 0	1.09086 - 1	1.1096 - 2	1.4509 - 1
51200	51326	389.970	-89.700	-56.500	1.09473	3.23273	1.08041	1.0989	1.4370
51400	51527	389.970	-89.700	-56.500	1.08425	3.20180	1.07008	1.0884	1.4232
51600	51728	389.970	-89.700	-56.500	1.07388	3.17117	1.05984	1.0780	1.4096
51800	51929	389.970	-89.700	-56.500	1.06361	3.14083	1.04970	1.0677	1.3961
52000	52130	389.970	-89.700	-56.500	1.05343	3.11079	1.03966	1.0575	1.3828
52200	52331	389.970	-89.700	-56.500	1.04336	3.08103	1.02971	1.0473	1.3696
52400	52532	389.970	-89.700	-56.500	1.03337	3.05156	1.01986	1.0373	1.3564
52600	52733	389.970	-89.700	-56.500	1.02348	3.02238	1.01010	1.0274	1.3435
52800	52934	389.970	-89.700	-56.500	1.01370	2.99344	1.00044	1.0176	1.3306
53000	53135	389.970	-89.700	-56.500	1.00400 + 2	2.96481 + 0	9.90870 - 2	1.0078 - 2	1.3179 - 1
53200	53336	389.970	-89.700	-56.500	9.94384 + 1	2.93644	9.81390	9.9820 - 3	1.3053
53400	53537	389.970	-89.700	-56.500	9.94481	2.90835	9.72002	9.8845	1.2928
53600	53738	389.970	-89.700	-56.500	9.94589	2.88053	9.62703	9.7919	1.2804
53800	53939	389.970	-89.700	-56.500	9.94697	2.85297	9.53403	9.6982	1.2682
54000	54140	389.970	-89.700	-56.500	9.94804	2.82568	9.44371	9.6055	1.2560
54200	54341	389.970	-89.700	-56.500	9.94910	2.79865	9.35337	9.5136	1.2440
54400	54542	389.970	-89.700	-56.500	9.95016	2.77187	9.26389	9.4226	1.2321
54600	54743	389.970	-89.700	-56.500	9.95121	2.74535	9.17526	9.3324	1.2203
54800	54944	389.970	-89.700	-56.500	9.95226	2.71909	9.08748	9.2431	1.2087
55000	55145	389.970	-89.700	-56.500	9.11961 + 1	2.69308 + 0	9.00085 - 2	9.1547 - 3	1.1971 - 1
55200	55347	389.970	-89.700	-56.500	9.03256	2.66731	8.91445	9.0671	1.1856
55400	55548	389.970	-89.700	-56.500	8.94615	2.64180	8.82917	8.9804	1.1743
55600	55749	389.970	-89.700	-56.500	8.86057	2.61652	8.74470	8.8945	1.1631
55800	55950	389.970	-89.700	-56.500	8.77580	2.59149	8.66104	8.8094	1.1519
56000	56151	389.970	-89.700	-56.500	8.69185	2.56670	8.57819	8.7251	1.1408
56200	56352	389.970	-89.700	-56.500	8.60869	2.54215	8.49612	8.6416	1.1300
56400	56553	389.970	-89.700	-56.500	8.52634	2.51783	8.41484	8.5580	1.1192
56600	56754	389.970	-89.700	-56.500	8.44477	2.49374	8.33434	8.4771	1.1085
56800	56955	389.970	-89.700	-56.500	8.36398	2.46988	8.25461	8.3969	1.0979
57000	57156	389.970	-89.700	-56.500	8.28397 + 1	2.44625 + 0	8.17564 - 2	8.3157 - 3	1.0874 - 1
57200	57357	389.970	-89.700	-56.500	8.20472	2.42286	8.09743	8.2361	1.0770
57400	57558	389.970	-89.700	-56.500	8.12622	2.39967	8.01996	8.1573	1.0667
57600	57759	389.970	-89.700	-56.500	8.04848	2.37672	7.94324	8.0793	1.0565
57800	57960	389.970	-89.700	-56.500	7.97149	2.35398	7.86725	8.0020	1.0464
58000	58162	389.970	-89.700	-56.500	7.89523	2.33146	7.79196	7.9254	1.0364
58200	58363	389.970	-89.700	-56.500	7.81970	2.30916	7.71744	7.8498	1.0264
58400	58564	389.970	-89.700	-56.500	7.74489	2.28708	7.64381	7.7745	1.0166
58600	58765	389.970	-89.700	-56.500	7.67080	2.26519	7.57049	7.7001	1.0069
58800	58966	389.970	-89.700	-56.500	7.59741	2.24351	7.49806	7.6265	9.9726 - 2

GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	$\rho, \text{LB FT}^{-3}$	$\frac{\rho}{\rho_0}$
59000	59167	389.970	-69.700	-54.500	7.52473 + 1	2.22206 + 0	7.42633 - 2	7.5636 - 3	9.8772 - 2
59200	59368	389.970	-69.700	-54.500	7.46374	2.20079	7.35528	7.4613	9.7827
59400	59570	389.970	-69.700	-54.500	7.39145	2.17674	7.22462	7.4057	9.6791
59600	59771	389.970	-69.700	-54.500	7.31053	2.15023	7.08532	7.2365	9.5554
59800	59972	389.970	-69.700	-54.500	7.24069	2.12133	6.94650	7.0586	9.4246
60000	60173	389.970	-69.700	-54.500	7.17162	2.09078	6.80784	7.1991	9.3137
60200	60374	389.970	-69.700	-54.500	7.10301	2.06752	6.66938	7.1302	9.2337
60400	60575	389.970	-69.700	-54.500	7.03506	2.04746	6.53208	7.0530	9.2345
60600	60777	389.970	-69.700	-54.500	6.96776	2.02758	6.39584	6.9644	9.1461
60800	60978	389.970	-69.700	-54.500	6.90110	2.00789	6.26068	6.8275	9.0586
61000	61179	389.970	-69.700	-54.500	6.83508 + 1	2.01840 + 0	6.12450 - 2	6.6912 - 3	8.9720 - 2
61200	61380	389.970	-69.700	-54.500	6.76969	1.99809	6.00116	6.7966	8.8861
61400	61581	389.970	-69.700	-54.500	6.70483	1.97908	5.87725	6.7306	8.8011
61600	61783	389.970	-69.700	-54.500	6.64078	1.96032	5.75284	6.6662	8.7169
61800	61984	389.970	-69.700	-54.500	6.57725	1.94228	5.62824	6.6024	8.6335
62000	62185	389.970	-69.700	-54.500	6.51433	1.92388	5.50294	6.5393	8.5509
62200	62386	389.970	-69.700	-54.500	6.45201	1.90528	5.37654	6.4767	8.4691
62400	62587	389.970	-69.700	-54.500	6.39029	1.88705	5.24872	6.4147	8.3881
62600	62788	389.970	-69.700	-54.500	6.32915	1.86900	5.12039	6.3534	8.3079
62800	62990	389.970	-69.700	-54.500	6.26860	1.85112	5.00063	6.2926	8.2284
63000	63191	389.970	-69.700	-54.500	6.20864 + 1	1.83341 + 0	4.87745 - 2	6.2324 - 3	8.1497 - 2
63200	63392	389.970	-69.700	-54.500	6.14924	1.81587	4.75883	6.1728	8.0717
63400	63593	389.970	-69.700	-54.500	6.09041	1.79840	4.63977	6.1137	7.9945
63600	63795	389.970	-69.700	-54.500	6.03215	1.78129	4.52037	6.0552	7.9180
63800	63996	389.970	-69.700	-54.500	5.97444	1.76445	4.40063	5.9973	7.8422
64000	64197	389.970	-69.700	-54.500	5.91728	1.74787	4.28059	5.9399	7.7672
64200	64398	389.970	-69.700	-54.500	5.86068	1.73056	4.16024	5.8831	7.6929
64400	64600	389.970	-69.700	-54.500	5.80461	1.71410	4.03958	5.8268	7.6193
64600	64801	389.970	-69.700	-54.500	5.74908	1.69740	3.91870	5.7711	7.5464
64800	65002	389.970	-69.700	-54.500	5.69408	1.68146	3.79762	5.7159	7.4742
65000	65203	389.970	-69.700	-54.500	5.63961 + 1	1.66537 + 0	3.67636 - 2	5.6612 - 3	7.4027 - 2
65200	65404	389.970	-69.700	-54.500	5.58566	1.64944	3.55481	5.6070	7.3319
65400	65606	389.970	-69.700	-54.500	5.53222	1.63366	3.43297	5.5534	7.2618
65600	65807	389.970	-69.700	-54.500	5.47929	1.61803	3.31074	5.5003	7.1923
65800	66008	389.970	-69.700	-54.500	5.42688	1.60254	3.18811	5.4482	7.1237
66000	66210	389.970	-69.700	-54.500	5.37499	1.58723	3.06507	5.3968	7.0556
66200	66411	389.970	-69.700	-54.500	5.32362	1.57206	2.94163	5.3459	6.9872
66400	66612	389.970	-69.700	-54.500	5.27272	1.55703	2.81779	5.2951	6.9193
66600	66813	389.970	-69.700	-54.500	5.22234	1.54216	2.69355	5.2451	6.8515
66800	67015	389.970	-69.700	-54.500	5.17246	1.52742	2.56892	5.1956	6.7838
67000	67216	389.970	-69.700	-54.500	5.12308 + 1	1.51284 + 0	2.44389 - 2	5.1467 - 3	6.7161 - 2
67200	67417	389.970	-69.700	-54.500	5.07415	1.49840	2.31845	5.0982	6.6487
67400	67619	389.970	-69.700	-54.500	5.02572	1.48410	2.19261	5.0503	6.5804
67600	67820	389.970	-69.700	-54.500	4.97777	1.46994	2.06637	5.0029	6.5126
67800	68021	389.970	-69.700	-54.500	4.93029	1.45591	1.93974	4.9560	6.4451
68000	68222	389.970	-69.700	-54.500	4.88327	1.44203	1.81271	4.9096	6.3785
68200	68423	389.970	-69.700	-54.500	4.83672	1.42828	1.68528	4.8637	6.3125
68400	68625	389.970	-69.700	-54.500	4.79062	1.41467	1.55745	4.8174	6.2470
68600	68826	389.970	-69.700	-54.500	4.74497	1.40119	1.42922	4.7716	6.1818
68800	69028	389.970	-69.700	-54.500	4.69978	1.38784	1.30059	4.7263	6.1169
69000	69229	389.970	-69.700	-54.500	4.65502 + 1	1.37463 + 0	1.17155 - 2	4.6817 - 3	6.0514 - 2
69200	69430	389.970	-69.700	-54.500	4.61070	1.36154	1.04201	4.6370	6.0213
69400	69632	389.970	-69.700	-54.500	4.56682	1.34858	0.91207	4.5928	5.9528
69600	69833	389.970	-69.700	-54.500	4.52337	1.33575	0.78174	4.5491	5.8846
69800	70034	389.970	-69.700	-54.500	4.48034	1.32304	0.65101	4.5058	5.8168
70000	70235	389.970	-69.700	-54.500	4.43773	1.31046	0.52087	4.4629	5.7494
70200	70437	389.970	-69.700	-54.500	4.39555	1.29800	0.39133	4.4204	5.6825
70400	70638	389.970	-69.700	-54.500	4.35377	1.28567	0.26139	4.3782	5.6161
70600	70840	389.970	-69.700	-54.500	4.31240	1.27345	0.13195	4.3363	5.5502
70800	71041	389.970	-69.700	-54.500	4.27144	1.26135	0.00201	4.2947	5.4848
71000	71243	389.970	-69.700	-54.500	4.23087 + 1	1.24938 + 0	0.00000 - 2	4.2534 - 3	5.4198 - 2
71200	71444	389.970	-69.700	-54.500	4.19070	1.23751	0.00000	4.2124	5.3550
71400	71645	389.970	-69.700	-54.500	4.15083	1.22577	0.00000	4.1716	5.2904
71600	71847	389.970	-69.700	-54.500	4.11135	1.21414	0.00000	4.1311	5.2261
71800	72048	389.970	-69.700	-54.500	4.07224	1.20262	0.00000	4.0908	5.1620
72000	72249	389.970	-69.700	-54.500	4.03342	1.19122	0.00000	4.0507	5.0981
72200	72451	389.970	-69.700	-54.500	3.99488	1.17992	0.00000	4.0108	5.0344
72400	72652	389.970	-69.700	-54.500	3.95661	1.16874	0.00000	3.9710	4.9709
72600	72854	389.970	-69.700	-54.500	3.91861	1.15767	0.00000	3.9313	4.9076
72800	73056	389.970	-69.700	-54.500	3.88087	1.14670	0.00000	3.8917	4.8445
73000	73258	389.970	-69.700	-54.500	3.84339 + 1	1.13584 + 0	0.00000 - 2	3.8521 - 3	4.7816 - 2
73200	73459	389.970	-69.700	-54.500	3.80616	1.12509	0.00000	3.8126	4.7189
73400	73661	389.970	-69.700	-54.500	3.76918	1.11444	0.00000	3.7732	4.6564
73600	73862	389.970	-69.700	-54.500	3.73244	1.10389	0.00000	3.7339	4.5941
73800	74064	389.970	-69.700	-54.500	3.69594	1.09344	0.00000	3.6947	4.5320
74000	74265	389.970	-69.700	-54.500	3.65968	1.08309	0.00000	3.6556	4.4701
74200	74467	389.970	-69.700	-54.500	3.62366	1.07284	0.00000	3.6166	4.4083
74400	74668	389.970	-69.700	-54.500	3.58788	1.06269	0.00000	3.5777	4.3466
74600	74870	389.970	-69.700	-54.500	3.55234	1.05264	0.00000	3.5389	4.2850
74800	75071	389.970	-69.700	-54.500	3.51704	1.04269	0.00000	3.4994	4.2235

GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	$\rho, \text{LB FT}^{-3}$	$\frac{\rho}{\rho_0}$
75000	75271	395.118	-64.563	-52.660	1.49779 + 1	1.03280 + 0	3.45205 - 2	3.4664 - 3	4.5315 - 2
75200	75472	395.328	-64.442	-52.579	1.46476	1.02214	3.41945	3.4318	4.4875
75400	75674	395.537	-64.323	-52.518	1.43574	1.01249	3.38718	3.3984	4.4438
75600	75875	395.747	-64.203	-52.457	1.40737	1.00272	3.35511	3.3654	4.4007
75800	76077	395.957	-64.083	-52.396	1.37930	9.99285 - 1	3.32327	3.3327	4.3582
76000	76278	396.167	-63.964	-52.335	1.35234	9.98304	3.29162	3.3004	4.3157
76200	76479	396.378	-63.844	-52.274	1.32643	9.97327	3.26018	3.2684	4.2738
76400	76681	396.588	-63.724	-52.213	1.29955	9.96354	3.22894	3.2367	4.2324
76600	76882	396.798	-63.604	-52.152	1.27364	9.95381	3.19790	3.2053	4.1913
76800	77084	397.008	-63.484	-52.091	1.24768	9.94401	3.16708	3.1742	4.1507
77000	77285	397.215	-63.365	-52.030	1.22161 + 1	9.93423 - 1	3.13640 - 2	3.1434 - 3	4.1105 - 2
77200	77487	397.425	-63.245	-51.969	1.19548	9.92448	3.10582	3.1120	4.0708
77400	77688	397.635	-63.125	-51.908	1.16931	9.91472	3.07536	3.0822	4.0312
77600	77890	397.844	-63.005	-51.847	1.14308	9.90497	3.04492	3.0518	3.9922
77800	78091	398.054	-62.885	-51.786	1.11680	9.89521	3.01450	3.0214	3.9535
78000	78293	398.264	-62.765	-51.725	1.09047	9.88546	2.98410	2.9912	3.9152
78200	78494	398.474	-62.645	-51.664	1.06409	9.87571	2.95372	2.9608	3.8774
78400	78696	398.684	-62.525	-51.603	1.03766	9.86596	2.92336	2.9304	3.8399
78600	78897	398.894	-62.405	-51.542	1.01118	9.85621	2.89302	2.9001	3.8027
78800	79099	399.104	-62.285	-51.481	0.98465	9.84646	2.86270	2.8698	3.7660
79000	79300	399.313	-62.165	-51.420	0.95807 + 1	9.83671 - 1	2.83240 - 2	2.8321 - 3	3.7296 - 2
79200	79502	399.522	-62.045	-51.359	0.93144	9.82696	2.80212	2.8024	3.6935
79400	79703	399.732	-61.925	-51.298	0.90476	9.81721	2.77186	2.7723	3.6578
79600	79905	399.942	-61.805	-51.237	0.87803	9.80746	2.74161	2.7420	3.6225
79800	80107	400.152	-61.685	-51.176	0.85125	9.79771	2.71137	2.7117	3.5875
80000	80308	400.362	-61.565	-51.115	0.82442	9.78796	2.68113	2.6815	3.5529
80200	80510	400.572	-61.445	-51.054	0.79754	9.77821	2.65090	2.6513	3.5186
80400	80711	400.782	-61.325	-50.993	0.77061	9.76846	2.62067	2.6210	3.4847
80600	80913	400.992	-61.205	-50.932	0.74363	9.75871	2.59044	2.5908	3.4511
80800	81114	401.202	-61.085	-50.871	0.71660	9.74896	2.56021	2.5606	3.4178
81000	81316	401.412	-60.965	-50.810	0.68957 + 1	9.73921 - 1	2.53000 - 2	2.5305 - 3	3.3849 - 2
81200	81517	401.622	-60.845	-50.749	0.66249	9.72946	2.50000	2.5005	3.3522
81400	81719	401.832	-60.725	-50.688	0.63536	9.71971	2.47000	2.4705	3.3199
81600	81921	402.042	-60.605	-50.627	0.60818	9.70996	2.44000	2.4405	3.2880
81800	82122	402.252	-60.485	-50.566	0.58095	9.69996	2.41000	2.4105	3.2563
82000	82324	402.462	-60.365	-50.505	0.55367	9.68996	2.38000	2.3805	3.2250
82200	82525	402.672	-60.245	-50.444	0.52634	9.67996	2.35000	2.3505	3.1939
82400	82727	402.882	-60.125	-50.383	0.49896	9.66996	2.32000	2.3205	3.1632
82600	82928	403.092	-60.005	-50.322	0.47153	9.65996	2.29000	2.2905	3.1328
82800	83130	403.302	-59.885	-50.261	0.44405	9.64996	2.26000	2.2605	3.1027
83000	83332	403.512	-59.765	-50.200	0.41652 + 1	9.63996 - 1	2.23000 - 2	2.2305 - 3	3.0728 - 2
83200	83533	403.722	-59.645	-50.139	0.38895	9.62996	2.20000	2.2005	3.0433
83400	83735	403.932	-59.525	-50.078	0.36132	9.61996	2.17000	2.1705	3.0141
83600	83937	404.142	-59.405	-50.017	0.33364	9.60996	2.14000	2.1405	2.9851
83800	84138	404.352	-59.285	-49.956	0.30591	9.59996	2.11000	2.1105	2.9564
84000	84340	404.562	-59.165	-49.895	0.27813	9.58996	2.08000	2.0805	2.9281
84200	84541	404.772	-59.045	-49.834	0.25036	9.57996	2.05000	2.0505	2.9000
84400	84743	404.982	-58.925	-49.773	0.22253	9.56996	2.02000	2.0205	2.8721
84600	84945	405.192	-58.805	-49.712	0.19465	9.55996	2.00000	2.0005	2.8446
84800	85146	405.402	-58.685	-49.651	0.16672	9.54996	2.00000	2.0005	2.8173
85000	85348	405.612	-58.565	-49.590	0.13879 + 1	9.53996 - 1	2.00000 - 2	2.0005 - 3	2.7903 - 2
85200	85550	405.822	-58.445	-49.529	0.11086	9.52996	2.00000	2.0005	2.7636
85400	85751	406.032	-58.325	-49.468	0.08288	9.51996	2.00000	2.0005	2.7371
85600	85953	406.242	-58.205	-49.407	0.05485	9.50996	2.00000	2.0005	2.7109
85800	86154	406.452	-58.085	-49.346	0.02677	9.49996	2.00000	2.0005	2.6849
86000	86356	406.662	-57.965	-49.285	0.00000	9.48996	2.00000	2.0005	2.6592
86200	86558	406.872	-57.845	-49.224	0.00000	9.47996	2.00000	2.0005	2.6338
86400	86759	407.082	-57.725	-49.163	0.00000	9.46996	2.00000	2.0005	2.6086
86600	86961	407.292	-57.605	-49.102	0.00000	9.45996	2.00000	2.0005	2.5836
86800	87163	407.502	-57.485	-49.041	0.00000	9.44996	2.00000	2.0005	2.5589
87000	87364	407.712	-57.365	-48.980	0.00000 + 1	9.43996 - 1	1.96288 - 2	1.9632 - 3	2.5344 - 2
87200	87566	407.922	-57.245	-48.919	0.00000	9.42996	1.94485	1.9449	2.5102
87400	87768	408.132	-57.125	-48.858	0.00000	9.41996	1.92682	1.9269	2.4862
87600	87970	408.342	-57.005	-48.797	0.00000	9.40996	1.90879	1.9089	2.4625
87800	88171	408.552	-56.885	-48.736	0.00000	9.39996	1.89076	1.8909	2.4390
88000	88373	408.762	-56.765	-48.675	0.00000	9.38996	1.87273	1.8729	2.4157
88200	88575	408.972	-56.645	-48.614	0.00000	9.37996	1.85470	1.8549	2.3926
88400	88776	409.182	-56.525	-48.553	0.00000	9.36996	1.83667	1.8369	2.3698
88600	88978	409.392	-56.405	-48.492	0.00000	9.35996	1.81864	1.8189	2.3472
88800	89180	409.602	-56.285	-48.431	0.00000	9.34996	1.80061	1.8009	2.3248
89000	89381	409.812	-56.165	-48.370	0.00000 + 1	9.33996 - 1	1.78258 - 2	1.7829 - 3	2.3026 - 2
89200	89583	409.999	-56.045	-48.309	0.00000	9.32996	1.76455	1.7647	2.2807
89400	89785	410.188	-55.925	-48.248	0.00000	9.31996	1.74652	1.7467	2.2589
89600	89987	410.378	-55.805	-48.187	0.00000	9.30996	1.72849	1.7287	2.2374
89800	90189	410.568	-55.685	-48.126	0.00000	9.29996	1.71046	1.7107	2.2161
90000	90390	410.758	-55.565	-48.065	0.00000	9.28996	1.69243	1.6927	2.1950
90200	90592	410.948	-55.445	-48.004	0.00000	9.27996	1.67440	1.6747	2.1741
90400	90794	411.138	-55.325	-47.943	0.00000	9.26996	1.65637	1.6567	2.1534
90600	90996	411.328	-55.205	-47.882	0.00000	9.25996	1.63834	1.6387	2.1329
90800	91197	411.518	-55.085	-47.821	0.00000	9.24996	1.62031	1.6207	2.1127

GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	ρ , LB FT ⁻³	$\frac{\rho}{\rho_0}$
91000	91299	403.253	-52.774	-48.763	1.65110 + 1	4.87370 - 1	1.62961 - 2	1.6003 - 3	2.0926 - 2
91200	91500	403.205	-52.844	-48.762	1.63525	4.83394	1.61446	1.5851	2.0727
91400	91700	403.157	-52.914	-48.761	1.62074	4.79418	1.59965	1.5700	2.0530
91600	91900	403.109	-52.984	-48.760	1.60657	4.75442	1.58478	1.5551	2.0335
91800	92100	403.061	-53.054	-48.759	1.59270	4.71466	1.57015	1.5403	2.0142
92000	92300	403.013	-53.124	-48.758	1.57912	4.67490	1.55567	1.5257	1.9950
92200	92500	402.965	-53.194	-48.757	1.56574	4.63514	1.54132	1.5112	1.9761
92400	92700	402.917	-53.264	-48.756	1.55257	4.59538	1.52710	1.4969	1.9573
92600	92900	402.869	-53.334	-48.755	1.53959	4.55562	1.51302	1.4827	1.9388
92800	93100	402.821	-53.404	-48.754	1.52680	4.51586	1.49908	1.4686	1.9204
93000	93300	402.773	-53.474	-48.753	1.51419	4.47610	1.48528	1.4547	1.9022
93200	93500	402.725	-53.544	-48.752	1.50174	4.43634	1.47158	1.4409	1.8841
93400	93700	402.677	-53.614	-48.751	1.48949	4.39658	1.45803	1.4272	1.8663
93600	93900	402.629	-53.684	-48.750	1.47735	4.35682	1.44480	1.4137	1.8486
93800	94100	402.581	-53.754	-48.749	1.46532	4.31706	1.43181	1.4003	1.8311
94000	94300	402.533	-53.824	-48.748	1.45340	4.27730	1.41914	1.3870	1.8137
94200	94500	402.485	-53.894	-48.747	1.44157	4.23754	1.40680	1.3739	1.7966
94400	94700	402.437	-53.964	-48.746	1.42984	4.19778	1.39477	1.3609	1.7796
94600	94900	402.389	-54.034	-48.745	1.41821	4.15802	1.38293	1.3480	1.7627
94800	95100	402.341	-54.104	-48.744	1.40668	4.11826	1.37128	1.3353	1.7460
95000	95300	402.293	-54.174	-48.743	1.39525	4.07850	1.35983	1.3228	1.7295
95200	95500	402.245	-54.244	-48.742	1.38392	4.03874	1.34848	1.3104	1.7132
95400	95700	402.197	-54.314	-48.741	1.37269	4.00000	1.33723	1.2980	1.6970
95600	95900	402.149	-54.384	-48.740	1.36156	3.96024	1.32608	1.2856	1.6809
95800	96100	402.101	-54.454	-48.739	1.35053	3.92048	1.31503	1.2733	1.6651
96000	96300	402.053	-54.524	-48.738	1.33960	3.88072	1.30408	1.2610	1.6493
96200	96500	402.005	-54.594	-48.737	1.32877	3.84096	1.29323	1.2487	1.6338
96400	96700	401.957	-54.664	-48.736	1.31804	3.80120	1.28248	1.2364	1.6183
96600	96900	401.909	-54.734	-48.735	1.30741	3.76144	1.27173	1.2241	1.6031
96800	97100	401.861	-54.804	-48.734	1.29688	3.72168	1.26108	1.2118	1.5879
97000	97300	401.813	-54.874	-48.733	1.28645	3.68192	1.25043	1.2029	1.5730
97200	97500	401.765	-54.944	-48.732	1.27612	3.64216	1.23988	1.1916	1.5581
97400	97700	401.717	-55.014	-48.731	1.26589	3.60240	1.22943	1.1803	1.5434
97600	97900	401.669	-55.084	-48.730	1.25576	3.56264	1.21908	1.1692	1.5289
97800	98100	401.621	-55.154	-48.729	1.24573	3.52288	1.20883	1.1582	1.5145
98000	98300	401.573	-55.224	-48.728	1.23580	3.48312	1.19868	1.1473	1.5002
98200	98500	401.525	-55.294	-48.727	1.22597	3.44336	1.18863	1.1365	1.4861
98400	98700	401.477	-55.364	-48.726	1.21624	3.40360	1.17868	1.1258	1.4721
98600	98900	401.429	-55.434	-48.725	1.20661	3.36384	1.16883	1.1152	1.4583
98800	99100	401.381	-55.504	-48.724	1.19708	3.32408	1.15908	1.1047	1.4445
99000	99300	401.333	-55.574	-48.723	1.18765	3.28432	1.14943	1.0943	1.4309
99200	99500	401.285	-55.644	-48.722	1.17832	3.24456	1.13988	1.0840	1.4175
99400	99700	401.237	-55.714	-48.721	1.16909	3.20480	1.13043	1.0738	1.4042
99600	99900	401.189	-55.784	-48.720	1.15996	3.16504	1.12108	1.0637	1.3910
99800	100100	401.141	-55.854	-48.719	1.15093	3.12528	1.11183	1.0537	1.3779
100000	100300	401.093	-55.924	-48.718	1.14190	3.08552	1.10268	1.0438	1.3649
100200	100500	401.045	-55.994	-48.717	1.13297	3.04576	1.09363	1.0340	1.3521
100400	100700	401.000	-56.064	-48.716	1.12404	3.00600	1.08468	1.0243	1.3394
100600	100900	400.952	-56.134	-48.715	1.11521	2.96624	1.07583	1.0147	1.3269
100800	101100	400.904	-56.204	-48.714	1.10648	2.92648	1.06708	1.0052	1.3144
101000	101300	400.856	-56.274	-48.713	1.09785	2.88672	1.05833	9.9575 - 4	1.3021 - 2
101200	101500	400.808	-56.344	-48.712	1.08932	2.84696	1.04958	9.8641	1.2899
101400	101700	400.760	-56.414	-48.711	1.08089	2.80720	1.04083	9.7716	1.2778
101600	101900	400.712	-56.484	-48.710	1.07256	2.76744	1.03208	9.6800	1.2658
101800	102100	400.664	-56.554	-48.709	1.06433	2.72768	1.02333	9.5893	1.2539
102000	102300	400.616	-56.624	-48.708	1.05620	2.68792	1.01458	9.4995	1.2422
102200	102500	400.568	-56.694	-48.707	1.04817	2.64816	1.00583	9.4105	1.2305
102400	102700	400.520	-56.764	-48.706	1.04024	2.60840	9.99708	9.3224	1.2190
102600	102900	400.472	-56.834	-48.705	1.03241	2.56864	9.98833	9.2351	1.2076
102800	103100	400.424	-56.904	-48.704	1.02468	2.52888	9.97958	9.1486	1.1963
103000	103300	400.376	-56.974	-48.703	1.01705	2.48912	9.97083	9.0630 - 4	1.1851 - 2
103200	103500	400.328	-57.044	-48.702	1.00952	2.44936	9.96208	8.9783	1.1740
103400	103700	400.280	-57.114	-48.701	1.00209	2.40960	9.95333	8.8943	1.1630
103600	103900	400.232	-57.184	-48.700	9.99474	2.36984	9.94458	8.8111	1.1522
103800	104100	400.184	-57.254	-48.699	9.98731	2.33008	9.93583	8.7286	1.1414
104000	104300	400.136	-57.324	-48.698	9.97988	2.29032	9.92708	8.6472	1.1307
104200	104500	400.088	-57.394	-48.697	9.97245	2.25056	9.91833	8.5664	1.1202
104400	104700	400.040	-57.464	-48.696	9.96502	2.21080	9.90958	8.4864	1.1097
104600	104900	400.000	-57.534	-48.695	9.95759	2.17104	9.90083	8.4072	1.0993
104800	105100	399.952	-57.604	-48.694	9.95016	2.13128	9.89208	8.3287	1.0891
105000	105300	399.904	-57.674	-48.693	9.94273	2.09152	9.88333	8.2507 - 4	1.0789 - 2
105200	105500	399.856	-57.744	-48.692	9.93530	2.05176	9.87458	8.1650	1.0687
105400	105700	399.808	-57.814	-48.691	9.92787	2.01200	9.86583	8.0803	1.0585
105600	105900	399.760	-57.884	-48.690	9.92044	1.97224	9.85708	8.0000	1.0483
105800	106100	399.712	-57.954	-48.689	9.91301	1.93248	9.84833	7.9200	1.0381
106000	106300	399.664	-58.024	-48.688	9.90558	1.89272	9.83958	7.8400	1.0279
106200	106500	399.616	-58.094	-48.687	9.89815	1.85296	9.83083	7.7600	1.0177
106400	106700	399.568	-58.164	-48.686	9.89072	1.81320	9.82208	7.6800	1.0075
106600	106900	399.520	-58.234	-48.685	9.88329	1.77344	9.81333	7.6000	0.9973
106800	107100	399.472	-58.304	-48.684	9.87586	1.73368	9.80458	7.5200	0.9871
107000	107300	399.424	-58.374	-48.683	9.86843	1.69392	9.79583	7.4400	0.9769
107200	107500	399.376	-58.444	-48.682	9.86100	1.65416	9.78708	7.3600	0.9667
107400	107700	399.328	-58.514	-48.681	9.85357	1.61440	9.77833	7.2800	0.9565
107600	107900	399.280	-58.584	-48.680	9.84614	1.57464	9.76958	7.2000	0.9463
107800	108100	399.232	-58.654	-48.679	9.83871	1.53488	9.76083	7.1200	0.9361
108000	108300	399.184	-58.724	-48.678	9.83128	1.49512	9.75208	7.0400	0.9259
108200	108500	399.136	-58.794	-48.677	9.82385	1.45536	9.74333	6.9600	0.9157
108400	108700	399.088	-58.864	-48.676	9.81642	1.41560	9.73458	6.8800	0.9055
108600	108900	399.040	-58.934	-48.675	9.80899	1.37584	9.72583	6.8000	0.8953
108800	109100	398.992	-59.004	-48.674	9.80156	1.33608	9.71708	6.7200	0.8851
109000	109300	398.944	-59.074	-48.673	9.79413	1.29632	9.70833	6.6400	0.8749
109200	109500	398.896	-59.144	-48.672	9.78670	1.25656	9.70000	6.5600	0.8647
109400	109700	398.848	-59.214	-48.671	9.77927	1.21680	9.69125	6.4800	0.8545
109600	109900	398.800	-59.284	-48.670	9.77184	1.17704	9.68250	6.4000	0.8443
109800	110100	398.752	-59.354	-48.669	9.76441	1.13728	9.67375	6.3200	0.8341
110000	110300	398.704	-59.424	-48.668	9.75698	1.09752	9.66500	6.2400	0.8239